

ACC NR: AT7000580

the line being scanned, is displayed on a zero-center meter. When the instrument is properly calibrated and is operating correctly, the meter will indicate zero when the microscope axis coincides with the center of the line. The vibrating slit is driven at line frequency (50 Hz), hence the output of the photodetector (6) contains a fundamental frequency component at that frequency, as well as the second and higher harmonics. Since both the line image and the vibrating slit affect the light flux to the photodetector, the ratio of the second (and other even harmonics) to the fundamental (and other odd harmonics) depends on the relative position of the microscope optical axis to the center of the line. As the center of the line is approached this ratio increases until at coincidence no fundamental component is present in the signal. The phase of the fundamental with respect to the phase of the line frequency corresponds to the relative position--to the left, or to the right--of the scanning system with respect to the scale line. The ring demodulator, because it uses line frequency as reference,

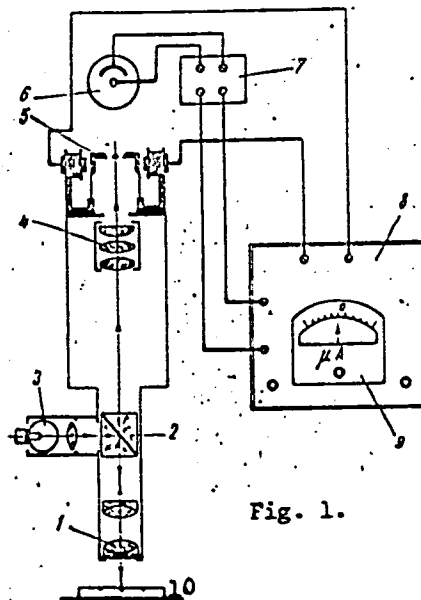


Fig. 1.

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ACC NR: AT7000580

generates a dc signal with magnitude dependent on the instantaneous amplitude of the fundamental in the input signal, and the polarity determined by its phase. The design of the instrument is discussed in great detail, as are conditions which may cause improper operation. Several photoelectric scanning microscopes were produced and utilized successfully in interferometric comparators. Orig. art. has: 5 figures.

SUB CODE: 09,14/ SUBM DATE: 10Nov63/ ORIG REF: 003

Card 3/3

ACC NR: AP7001335

SOURCE CODE: UR/0428/66/000/004/0106/0109

AUTHOR: Sirota, N. N.; Brzhezinskiy, V. A.; Dyukov, V. G.; Karatsyuba, A. P.; Korshunov, F. P.; Lezzhov, Yu. F.; Chernyshev, A. A.

ORG: none

TITLE: Investigation of the effects of reactor radiation on the structure and parameters of silicon p-n junctions [Papers presented at the First Conference on Radiation Solid State Physics held on 8 September 1965 in Kiev]

SOURCE: AN BSSR. Vestsi. Seryya fizika-matematychnykh navuk, no. 4, 1966, 106-109

TOPIC TAGS: silicon, silicon semiconductor, neutron radiation, micrograph, pn junction, pn silicon

ABSTRACT: An investigation was made of the influence of the gamma neutron radiation of a reactor on changes in the structure and electrophysical parameters of p-n junctions, prepared by the diffusion method on n-type silicon with specific resistances of 2, 10, and 250 ohm · cm. The samples were irradiated in the

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ACC NR: AP7001335

vertical channel of a reactor of the AN BSSR. It was found that radiation causes considerable changes in the volt-ampere characteristics of silicon diffusion p-n junctions. These changes increase with the resistance of the original silicon base from which the p-n junction is prepared. Radiation (1.10^{15} n/cm²) decreases the barrier capacity of the p-n junction and its dependence on the reverse voltage virtually disappears. The electron micrograph of the p-n junction, shifted on a bias of 30 v, showed no changes in the shape, location, and width of the p-n junction during this shift (after radiation). The width of the p-n junction after exposure was found to be independent of the bias voltage. It was possible to observe a drop of the direct voltage in the diode base having an initial specific resistance of 10 and 250 ohm · cm. It was also found that isochronous annealing at maximum of 350 C restores the direct branch of the volt-ampere characteristics of the p-n junction. Orig. art. has: 4 figures. [WA-095] [GC]

SUB CODE: 20/SUMB DATE: 25Jun66/ORIG REF: 003/OTH REF: 002/

Card 2/2

L 35378-66

ACC NR: AP6026850

SOURCE CODE: CZ/0060/66/000/002/0078/0080

AUTHOR: Klesnil, Svatopluk (Lieutenant colonel; Doctor of medicine); Hubka, Stanislav—
Gubka, S. (Lieutenant colonel; Doctor); Brzokoupil, Oldrich (Major; Doctor of medicine)

ORG: Military Hospital, Olomouc (Vojenska nemocnice)

TITLE: Medical evacuation of soldiers suffering from spinal disorders under field conditions ²² [This paper was presented at the Armed Forces Conference held at the Military Hospital in Olomouc on 16 October 1964]

SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 78-80

TOPIC TAGS: army medicine, bone disease, therapeutics

ABSTRACT: In a military ambulatory hospital out of 300 patients treated in 1964, 41% suffered from spinal disorders. As during periods of hostilities the load on a soldier would be increased, the authors assume that the number of soldiers needing medical help would increase, and therefore a study of the means by which they could be sent to military hospitals was made. All cases of tumors, or chronic inflammation of spinal discs should be sent to military hospitals. Chiropractic treatment in field hospitals should be made available. Details of this treatment are discussed.

[JPRS: 36,834]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 *111*

UDC: 356.33: 616.71.06.00

BRYUSOVA, S.S.

~~BRUSOVA, S.S.~~

[Angiography of the brain] Angiografiia mozga. Moskva, Izd-vo Akademii med.
nauk SSSR, 1951. 152 p. (MIRA 6:9)
(Brain--Blood vessels)

BRYUSOVA, S. S., Prof.

"Surgical technoque in the operation of nerve trunks of extermities."
K. A. Grigorovich. Reviewed by Prof. S. S. Bryusova. Vop. neirokhir. 12,
No 2, 1952.

1. BRIUSOVA, S.S.
 2. USSR(600)
 4. Diagnosis, Radioscopic
 7. "Cerebral angiography." Reviewed by Prof. A.I. Geimanovich. Vop. neurokhir.
16 no. 6. 1952
9. Monthly List of Russian Accessions. Library of Congress, March 1953. Unclassified.

BRYUSOVA, S. S.

"Blood Circulation in the Brain," B. N. Klovskiy. Reviewed by
the above. Zhur. nevr. i psikh, 52, No 2, 1952.

BRYUSOVA, S.S., professor (Moskva).

Russian surgeons were the first to remove intravertebral tumors. Vop.
neirokhir. 17 no.3:52-53 My-Je '53. (MLRA 6:8)
(Vertebrae--Tumors)

BRYUSOVA, S.S., professor (Moscow)

First successful resection of the longitudinal sinus in Russian
surgery. Vopr. neirokhir. 17 no.6:51-52 N-D '53. (MLRA 6:12)
(Veins--Surgery)

BRYUSOVA, S., redaktor; YEGOROV, B.G., redaktor; SACHNEVA, A.I.,
tekhnikheskiy redaktor

[Physiological basis for neurosurgical operations] K fiziologi-
cheskomu obosnovaniyu neirokhirurgicheskikh operatsii. Moskva, Gos.
izd-vo med. lit-ry, 1954. 233 p. (MLRA 7:10)

1. Akademiya meditsinskikh nauk SSSR.
(BRAIN--TUMORS) (BRAIN--SURGERY)

BRYUSOVA, S.S. (Moskva)

Diagnosis and therapy of neural lesions in works of I.V.Buil'skii.

Vop. neirokhir. 18 no.5:54-55 S-O '54.

(MLRA 7:11)

(BUIL'SKII, I.V., 1789-1866)

(NEUROLOGY, history,

in Russia, contribution of I.V.Buil'skii)

BRYUSOVA, S.S., professor, doktor meditsinskikh nauk

Review of "Principles of topographical anatomy" by D.N. Lubotskii,
S.S. Briusova. Arkh. anat. gist. i embr. 31 no. 2: 88 Ap-Je '54.

(MLRA 7:8)

(LUBOTSKII, D.N.)

(ANATOMY, SURGICAL AND TOPOGRAPHICAL)

BRYUSOVA, S.S., professor

Surgical treatment of vascular lesions of the brain; review of
foreign literature. Vop.neirokhir. 19 no.3:57-62 '55. (MLRA 8:6)
(BRAIN, blood supply,
 vasc. lesions, surg., review)

BRYUSOVA, S.

"Surgical treatment of psychomotor epilepsy" (Zbl. f. Neurochir. 1954
no.4/5 195-206) P. Bailey. Reviewed by S. Briuseva.
Vopr. neirokhir. 20 no.1:55 Ja-F '56 (MLRA 9:6)

(EPILEPSY)

BRYUSOVA, S.

Electroencephalographic and therapeutic results from treating epilepsy of the temporal lobe in 21 patients". (Zbl. f. Neurochir. 1954, no.4/5 206-211) H. Krayenbushl, R. Hess, G. Weber. Reviewed by S. Briuseva. Vopr. neurokhir. 20 no.1:55 Ja-F '56, (MLRA 9:6)

(EPILEPSY) (ELECTROENCEPHALOGRAPHY)

BRYUSOVA, S.

"Surgical treatment for temporal epilepsy" (Acta medica Academiae
scientiarum Hungaricae, 1955, v.7, no.3-4, 295-321) J. Hurray.
Reviewed by S. Briusova. Vopr. neirokhir. 20 no.1:56 Ja-F '56
(MLRA 9:6)

(EPILEPSY) (BRAIN--SURGERY)

BRYUSOVA, S.

"Operative technic of hemisphere removal in hemiplegia and
epilepsy in children". (Zbl. f. Neurochir., 1954 no.1/2, 43-48)
W. McKissek. Reviewed by S. Briusova. Vopr. neirokhir. 20 no.1:
57 Ja-7 '56 (MLRA 9:6)

(BRAIN--SURGERY)

BRYUSOVA, S.

"Neurological examinations of the patients with early brain injuries after hemispherectomy" (Zbl. f. Neurochir., 1954, no. 1/2, 48-63) K.J. Zuelch. Reviewed by S. Briusova. (MIRA 9:6)
Vopr. neirokhir. 20 no.1:57 Ja-F '56
(BRAIN--SURGERY)

BRYUSOVA, S.S., professor

"Problems in neurosurgery." Reviewed by S.S.Briusova. Vop.neirokhir.
20 no.3:62-63 My-Je '56. (MLRA 9:8)
(NERVOUS SYSTEM--SURGERY)

BRYUSOVA, S.S., professor; DZHALALOVA, M.K.

Use of cortisone and the adrenocorticotrophic hormone (ACTH) in
chronic rheumatoid polyarthritis. Sov.med. 20 no.12:49-51 D '56.
(MLRA 10:1)

1. Iz Tsentral'noy polikliniki (dir. - N.I.Yermolog) Ministerstva
zdravookhraneniya SSSR.

(ARTHRITIS, RHEUMATOID, ther.
ACTH & cortisone)

(ACTH, ther. use
rheum. arthritis, with cortisone)

(CORTISONE, ther. use
rheum. arthritis, with ACTH)

БРЮСОВА, С.

БРЮСОВА, С.

~~"Problems in neurosurgery."~~ Vol.2: Intracranial hypertension.
Reviewed by S.Briusova. Vop.neirokhir.21 no.6:58-59 N-D '57.
(CEREBROSPINAL FLUID) (MIRA 11:2)

BRYUSOVA, S.S.; BLINKOV, S.M.; KANDEL', E.I.

First International Congress of Neurology in Brussels, July 21-28,
1957. Vop.neirokhir. 22 no.2:44-52 M-Apr '58. (MIRA 11:4)
(NERVOUS SYSTEM--DISEASES) (BRAIN--SURGERY)
(HYPOTHERMIA)

L 58745-65 EWT(d)/EWT(m)/EWP(j)/EWP(k)/EWA(c)/EWP(h)/EWP(b)/EWA(d)/EWP(l)/
EWP(v)/EWP(t) Pc-4/Pf-4 RM/JD/HW

ACCESSION NR: AR5002384

S/0271/64/000/010/A014/A014
621.398.694.4-531.7

SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Sv. t., Abs. 10A111

31
B

AUTHOR: Bryuyer, G.

TITLE: Synthetic-mica tensometers

CITED SOURCE: Sb. Vysokotemperat. termozodachiki. M., Mashgiz, 1963, 153-154

TOPIC TAGS: tensometer, synthetic mica tensometer, high temperature tensometer

TRANSLATION: The tensometers made from nichrome foil with synthetic mica as a base have a thickness of 0.15 mm or less and operate at temperatures over 815C. The mica withstands temperatures up to 1350C and preserves the desirable electrical and physical characteristics up to 1095C. One illustration.

SUE CODE: PR, IE

ENCL: 00

Card 1/1

BRYUZGIN, V.L.

The Lee phenomenon. Vop. ikht. no.17:140-149 '61. (MIRA 14:5)

1. Kafedra zoologii Khersonskogo gosudarstvennogo pedagogicheskogo instituta.

(Scales (Fishes))

(Growth)

BRYUZGIN, V.L.

Methods for studying the growth of fishes by using scales, bones
and otoliths. Vop. ikht. 3 no.2:347-365 '63. (MIRA 16:7)

1. Institut gidrobiologii AN UkrSSR, Kiyev.
(Ichthyological research) (Growth)

BRYUZGINA, G.; GAYEVOY, Ye., kand.sël'skokhoz.nauk; DINARIYEVA, G.; RADKEVICH, D.;
TRUDOLYUBOVA, Ye.; MASHKOV, V., kand.sël'skokhoz.nauk; PANYUKIN, I.,
kand.tekhn.nauk. [deceased]

New methods of preservation of fur and garment sheep pelts and
mechanization of their processing. Mias.ind.SSSR 33 no.5:15-21 '62.
(MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti
(for Bryuzgina, Gayevoy, Dinariyeva, Radkevich, Trudolyubova). 2. Nauchno-
issledovatel'skiy institut mekhovoy promyshlennosti (for Mashkov, Panyukin).
(Hides and skins) (Assembly-line methods)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; PANYUKIN, I.I., kand. tekhn. nauk; MASHKOV, A.N., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; BRYUZGINA, G.A., mladshiy nauchnyy sotrudnik

Use of formaldehyde compounds for the conservation of fur and garment sheepskins. Trudy VNIIMP no.25:24-43 '63.
(MIRA 17:5)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; BRYUZGINA, G.A., mladshiy nauchnyy sotrudnik

Efficiency of the use of formaldehyde compounds for the conservation of fur and coat sheepskins during long storage of the raw materials. Trudy VNIIMP no.15:43-55 '63.
(MIRA 17 5)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; VASSERMAN, B.A., inzhener-
tekhnolog; RADKEVICH, D.P., starshiy inzhener; TRUDOLYUBOVA,
G.B., mladshiy nauchnyy sotrudnik; BRYUZGINA, G.A., mladshiy
nauchnyy sotrudnik; GEGUZINA, I.Yu., mladshiy nauchnyy
sotrudnik; BLYANSKAYA, N.V., tekhnik

New method for the conservation treatment of raw leather
in a mobile apparatus. Trudy VNIIMP no.15:67-78 '63.
(MIRA 17:5)

L 17517-63 ENT(1)/EDS/ES(a)/ES(1)/ES(c)/ES(v) AMD/AFTG/AEMDC Pb-1
 ACCESSION NR: AP3004435 A/K 9/0020/63/151/004/0978/0981

AUTHORS: Voskresenskiyi, A. D.; Kisel'yev, A. A.; Bryuzgina, M. I.

TITLE: Cardiac circulation and myocardial oxygen consumption during lateral acceleration.

SOURCE: AN SSSR. Doklady, v. 151, no. 4, 1963, 978-981

TOPIC TAGS: acceleration, cardiac circulation, myocardial oxygen consumption.

ABSTRACT: Cardiac circulation and myocardial oxygen consumption were studied in 2 series of dogs subjected to a lateral acceleration (spine-thorax) of 6 g for 1 min and 4 min. A DP-2 apparatus was used to ensure that the heart was supplied with sufficient oxygen. After 1 min acceleration at 6 g the percentage of oxygen in blood from the arteries and coronary sinus and the arteriovenous difference were only slightly different from the initial values. In the majority of cases the rate at which blood was discharged from the coronary sinus was higher. Under these conditions the authors consider that the body's compensatory mechanisms are adequate. After 4 min acceleration the percentage oxygen in arterial blood decreased considerably. There was also a reduction in the percentage oxygen in blood from the coronary sinus. However, this reduction was not large enough to maintain the initial value for arteriovenous differences. In all cases there was

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L 17547-63

ACCESSION NR: AP3004435

an increase in the rate at which blood was discharged from the coronary sinus. After deceleration all of these values tended to return to their initial levels. Changes in the ECG were not very specific under these conditions. Sinusoidal arrhythmia and extra-systoles were noted together with a decrease in the pulse rate and a drop in arterial pressure. The authors consider that myocardial hypoxia might develop under these conditions. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 11Feb63

DATE ACQ: 21Aug63

ENCL: 00

SUB CODE: AM

NO REF SOW: 007

OTHER: 012

Card 2/2

BRYZGACHEV, S.S., kand.tekhn.nauk

Comparing new types of superstructures of intermediate supports
of railroad bridges. Transp. stroi. 11 no.1:37-40 Ja '61.

(MIRA 14:1)

(Railroad bridges)

BRYUZGIN, I. uchstkovyy marksheyder

This is a real rest! Mast. ugl. 8 no.7:23 JI '59.
(MIRA 12:10)

1.Shakhta No.7 tresta Cheremkhovugol'.
(Siberia--Coal miners)

BRYUZGIN, V. L. Cand Biol Sci -- (diss) "On methods of studying the growth of fish by the scales, bones, and otoliths." Odessa, 1959. 20 pp (Odessa State Univ im I. I. Mechnikov), 150 copies. Bibliography at end of text.
(KL, 52-59, 118)

BRYUZGIN, V.L.

Growth characteristics of fishes. Vop. ikht. no.15:77-90
'60. (MIRA 13:9)

1. Khersonskiy gosudarstvennyy pedagogicheskiy institut im.
N.K. Krupskoy. (Fishes) (Growth)

Bryzgalin, A.S.
~~ARYZGALIN, A.S.~~

P.G.Nikitin's thousand efficiency suggestions. Izobr.v SSSR 3
no.1:33-34 Ja '58. (MIRA 11:1)
(Nikitin, Pavel Georgievich)

27 4200

S/207/62/000/003/012/016
1028/1228

AUTHOR: Bryzgalin, G. I. (Novosibirsk)

TITLE: On the creep in the case of variable stresses

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1962, 73-77

TEXT: An attempt is made to broaden the scope of the existing theories by finding a general formula capable of describing the process of deformation in the case of sharply varying stresses. Two main theories, describing the time component of the deformation respectively by the functions $\epsilon(t)$ and $p(t)$, are examined. The 1st formula $p(t)$, which is best suited for increasing loads, requires that the creeping deformation be completely non-reversible, while the formula $\epsilon(t)$, which is particularly suited to the case of reverse creep, requires that the whole deformation be reversible. The author assumes that the total deformation is a superposition of both reversible and irreversible deformations, and therefore proposed the following functional representation of the time component of the deformation:

$$\epsilon(t) = \epsilon(t) + p(t)$$

Special experiments are designed on order to separate the two components of the deformation. The experimental results are confronted with the theoretical ones, and the agreement found to be satisfactory. There are 5 figures. The most-important English-language reference reads as follows: Findley, W., and Khosla, G.,

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On the creep in...

S/207/62/000/003/012/016
1028/1228

"Application of the Superposition Principle and Theories of Mechanical Equation of State, Strain, and Time Hardening to Creep of Plastics under Changing Loads", Journal, of Applied Physics, July 1955, vol. 26, n. 7.

SUBMITTED: January 5, 1962

Card 2/2

BRYZGALIN, G.I. (Novosibirsk)

Testing of plates of reinforced plastics for creep. FMTF no.1:136-
138 Su-F '45. (MIRA 18:8)

BRYZGALIN, G.I. (Novosibirsk)

Description of anisotropic creep of glass plastics.
PMTF no. 6:177-182 N=D '63. (MIRA 17:7)

ACCESSION NR: AP4041788

S/0191/64/000/007/0062/0064

AUTHOR: Bryzgalin, G. I.

TITLE: Calculation of the internal stresses and deformations in glass plastics of the type AG-4S

SOURCE: Plasticheskiye massy*, no. 7, 1964, 62-64

TOPIC TAGS: glass fiber, glass plastic, plastic, binder, creep, AG-4S glass plastic, internal stress, deformation, elasticity, bidirectional glass plastic

ABSTRACT: Good adhesion between the fibers in glass plastics is highly dependent on the relative strength and elasticity of the glass fibers and binder. In continuation of an earlier paper (B. V. Shpakov, Plast. massy*, No. 3 (1962)), in which the internal stresses and deformations were calculated for a glass plastic with parallel fibers, the author investigated samples of glass plastic AG-4S containing fibers arranged perpendicularly to one another and calculated the elasticity modulus of the bidirectional glass plastic on the basis of the moduli of elasticity of the glass fibers and binders, as well as the amounts of these components in the material. Formulas are derived by means of which the stresses in the resin and the glass fibers in the glass plastic layers parallel and perpendicular to the applied stress could be determined. The tabulated results of a test at 100C with a constant

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ACCESSION NR: AP4041788

load of 11 kg/mm² (70% of the rupture stress) showed that the creep of glass plastic AG-4S of uniform strength is small along the line of reinforcement. The creep of glass plastic at an angle of 45° with respect to the direction of reinforcement is considerable, however, and must not be disregarded. Orig. art. has: 2 tables, 2 figures and 9 formulas.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: MT

NO REF SOV: 003

ENCL: 00

OTHER: 000

Card 2/2

L 58976-65

ENP(e)/EPA(s)-2/ENT(m)/EPF(c)/EPR/ENP(j)/T Pc-4/Pr-4/Ps-4/Pt-7

WH/RM

ACCESSION NR: AP5014697

UR/0191/65/000/006/0055/0056
678.06-419:677.521.01:539.411:539.412

AUTHOR: Bryzgalin, G.I.; Sukhanov, A.I.

TITLE: Tensile and compression tests of AG-4s glass reinforced plastic

SOURCE: Plasticheskiye massy, no. 6, 1965, 55-56

TOPIC TAGS: fiberglass reinforced plastic, plastic mechanical property, elastic modulus, tensile strength, compressive strength, creep

ABSTRACT: The article reports the results of a comparison of the deformation properties of the AG-4s fiberglass plastic reinforced in two mutually perpendicular directions. The tensile and compression tests were carried out along one of the directions of the reinforcement. The instantaneous strains were obtained from the measurement of the elastic moduli and the creep strains were also determined. The total strain is the sum of the instantaneous (elastic) strain and creep strain. It was found that at stresses not exceeding 5 kg/mm^2 and at a temperature of 30°C , the elastic and creep properties of the material in extension and compression are practically the same. To a first approximation, the creep of AG-4s along the direction of the reinforcement can be considered by introducing the long elastic modulus and replacing the material with a model having no creep

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L 58976-65

ACCESSION NR: AP5014697

along the main directions of anisotropy. The conditions under which such a model adequately describes the properties of the real material depend on the temperature range, load intensity, and nature of the stress condition. Orig. art. has: 2 figures, 1 table, and 1 formula.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 004

ENCL: 09

SUB CODE: MT

OTHER: 000

Card 2/2 *dm*

BRZGALIN, L.I.

Set of machines and equipment for transportation and application
of organic fertilizers. Mashinostroenie no.3:101-102 My. Je '65.
(MIRA 18:6)

BRYZGALIN, L.I. [Bryzhalin, L.I.], inzh.

Device for washing tractors. Mekh. sil'. hosp. 14 no.10:8-9 0
'63. (MIRA 17:2)

BRYZGALIN, N. F.

AID P - 2684

Subject : USSR/Mining

Card 1/1 Pub. 78 - 2/21

Author : Bryzgalin, N. F.

Title : Appeal for reduction and mechanization of auditing and computation

Periodical : Neft. khoz., 33, 5, 12-15, My 1955

Abstract : In the petroleum industry steps have been taken to reduce personnel and to simplify procedures, especially in the field of auditing and reporting. The proper and widespread use of computing machines is advocated in order to make production data more quickly available for processing.

Institution : None

Submitted : No date

BRYZGALIN, Nikolay Fedorovich; USTIYANTS, V.A., red.; MILOV, A.A., red.;
MULIKOVA, I.F., tekhn.red.

[Practices of machine accounting in the petroleum industry] Opyt
mekhanizatsii ucheta v neftianoi promyshlennosti. Moskva, Gos.
stat. izd-vo, 1957. 115 p. (MIRA 11:4)
(Machine accounting)

AUTHOR: Bryzgalin, O. V. 7 58-3-8/15

TITLE: On the Genesis of Scheelite in Skarn Type Deposits (O genezise sheyelita v nestorozhdeniyakh skarnovogo tipa)

PERIODICAL: Geokhimiya, 1958, Nr 3, pp. 235 - 240 (USSR)

ABSTRACT: According to — present conceptions it is certain that scheelite is formed in nature by the reaction of tungsten-containing aqueous solutions or gaseous emanations with a medium containing limestone. There are various opinions concerning the chemical character and the phases of the ore-bearing materials as well as the concrete form of the occurrence of tungsten in them. In order to clear that experiments were carried out in the laboratory of N.I.Khitarov (Laboratoriya Magmatogennykh protsessov). The author discusses first the skarn type deposits by using the example of the deposit of Tyrny-Auz (Severnnyy Kavkaz). The syntheses were carried out in an apparatus which is schematically reproduced and discussed in short by the author. In a table the Debyeograms of natural scheelite and synthetic CaWO_4 are compared to each other; the radiographs were made out by Ye.S.Makarov. The results of the syntheses are compiled in

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On the Genesis of Scheelite in Skarn Type Deposits

7-58-3-8/15

tables which show the solution (Na_2WO_4 ; $\text{Na}_2\text{WO}_4 + \text{NaOH} + \text{SiO}_2$), charge (labrador), temperature, pressure, reaction duration, and the result. In another experimental series NaOH , NaHCO_3 , and H_2O were used as solution, wolframite (with quartz)+labrador+limestone, wolframite (with quartz)+labrador, as well as albite + wolframite + limestone. The temperatures used amounted to 350 and 500°, the pressures to 250 and 600 atmospheres. Furthermore leaching out experiments were carried out at pyroxene and garnet by means of NaOH 0,15 n (350°, 250 atmospheres). The analyses were carried out by T.I. Shekhanova. The results experimentally confirm that tungsten migrated and scheelite was separated from a slightly alkaline solution. There are 1 figure, 4 tables, and 6 references, 5 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo, AN SSSR, Moskva (Moscow Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy, AS USSR)

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On the Genesis of Scheelite in Skarn Type Deposits

7-58-3-8/15

SUBMITTED: March 5, 1958

1. Tungsten ores---Analysis 2. Tungsten ores---Chemical
reactions 3. Geochemistry 4. Tungsten ores---Radiographic
analysis

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BRYZGALIN, O. V., Cand Geol-Min Sci -- (diss) "Transfer and deposition of wolfram in the formation of silicate contact gangue ore. (From the example of the Tyrny-Auz deposits)." Moscow, 1960. 24 pp; (Inst of Geochemistry and Analytical Chemistry im V. I. Vernadskiy of the Academy of Sciences USSR); 150 copies; price not given; (KL, 19-60,131)

BRYZGALIN, O. V.

Chemical nature of tungsten-bearing solutions in the formation of
skarn type ore deposits, Geokhimiia no.6:524-528 '60.

(MIRA 13:10).

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo
AN SSSR, Moskva.

(Scheelite)

S/007/61/000/004/004/004
B107/B207

AUTHOR: Bryzgalin, O. V.

TITLE: Symposium on Experimental Studies in the Field of Abyssal Processes

PERIODICAL: Geokhimiya, no. 4, 1961, 364

TEXT: The Simpozium po eksperimental'nyim issledovaniyam v oblasti glubinnykh protsessov (Symposium on Experimental Studies in the Field of Abyssal Processes) was held in the Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR) from November 29 to December 1, 1960. Its aim were experimental studies at high pressures and temperatures and their practical application to geochemical problems. About 300 scientists participated who represented approximately 60 different scientific organizations, among them 35 Institutes of the Academy of Sciences USSR and the Union's Republics. At the first meeting, N. I. Khitarov spoke about the physico-chemical characteristics of abyssal processes, the present state of experimental research in this field, and

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Symposium on...

the ways of further development. The following lectures by B. I. Davydov, V. A. Magnitskiy, L. F. Vereshchagin, and M. P. Volarovich dealt with the inner structure of the Earth, the physical state and properties of matter at high pressures. Further lectures delivered at the following sessions dealt with experimental studies of individual natural processes (contact processes, autometasomatism, autohydrothermal processes), and the solubility and stability of various minerals at high temperatures and pressures (feldspars, galenite, baryte), as well as model experiments of certain natural processes, e.g., albitization, transportation of substances by hydrothermal solutions, the role of sulfides in hydrothermal solutions. The lectures held on the last day dealt with the methods of experimental studies, with new devices and material, as well as measuring devices. Apart from the planned reports, representatives of many scientific research organizations of the USSR reported on experimental studies, planned research work, equipment with devices and training of experts in their institutes. Among others, reports were delivered by representatives of the following organizations: VIMS (All-Union Scientific Research Institute of Mineral Raw Materials), IMGRE (Institute of Mineralogy, Geochemistry and Crystallochemistry of Rare Elements), MGU (Moscow State

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Symposion on...

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University), the Geological Institute of the Akademiya nauk Ukrainskoy SSR (Academy of Sciences Ukrainskaya SSR), the AN Kazakhskoy SSR (AS Kazakhskaya SSR), the AN Uzbekskoy SSR (AS Uzbekskaya SSR), the Ural'skiy FAN SSSR (Ural Branch of the AS USSR). The participants at the Symposion adopted a resolution to establish a permanent Komissiya po eksperimental'nyim issledovaniyam v oblasti vysokikh temperatur i davleniy (Commission for Experimental Studies in the Field of High Temperatures and Pressures). This resolution is to coordinate research work and find measures of improvement and further development. Moreover, the participants expressed the wish to convene periodically conferences of this type. A preliminary Commission was elected to put this resolution into practice.

SUBMITTED: January 15, 1961

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NAUMOV, G.; MALININ, S.; BRYZGALIN, O.

Sixth conference on Experimental and Technical Mineralogy and
Petrography. Geokhimiia no.8:716 '61. (MIRA 17:3)

BRYZGALINA, S.I. (Moskva)

New data on the eruption of the Katmai Volcano. Priroda 53
no.10:113-114 '64. (MIRA 17:11)

BRYZGALINA, S.P. (Moskva)

Birth of a new volcano. Priroda 53 no.5:118-119 '64.
(MIRA 17:5)

SEMENOV, A.D.; BRYZGALO, V.A.; DATSKO, V.G. [deceased]

Potentiometric determination of organic acids in natural waters.
Gidrokhim. mat. 38:137-143 '64. (MIRA 18:4)

1. Gidrokhimicheskiy institut AN SSSR, Novocherkassk.

BRYZGALOV, Andrey Nikolayevich

[The Onezhskii Plant] Onezhskii zavod. Petrozavodsk, Gosizdat,
Karel'skoi ASSR, 1957. 125 p. (MIRA 13:11)
(Petrozavodsk--Tractor industry)

ANTROPOV, Aleksandr Vladimirovich, zasl. izobretatel' RSFSR,
iskusnyy tokar'-rastrochnik; BRYZGALOV, I., red.

[Machining on jig-boring machines] Rabota na koordinatno-
rastochnykh stankakh. Moskva, Mosk. rabochii, 1964. 76 p.
(MIRA 17:11)

1. Chlen soveta novatorov Moskovskogo gorodskogo soveta na-
rodnogo khozyaystva (for Antropov).

USSR/Cultivated Plants - Subtropical. Tropical.

M.

Abstr Jour : Ref Zhur - Biol., No 10, 1958, 44357

Author : Kocherzhenko, I.Ye., Bryzgalov, K.A.

Inst : All-Union Scientific Research Institute for Tea and
Subtropical Cultures.

Title : On the Premature Dropping Off of the Leaves in Lemon
in Winter Under Room Conditions and in the Lemonarium.

Orig Pub : Dyul Vses. n.-i. in-ta chaya i subtrop. kul'tur, 1957,
No 1, 142-156.

Abstract : In order to determine the causes of premature leaf drop
in the citrus fruit grown in the enclosed and semi-enclo-
sed ground, the Botanical Garden of the Academy of Scien-
ces of USSR (Kiev) initiated a series of experiments on
the study of the effect of hydrothermic and light condi-
tions on the degree of leaf drop in lemons when kept in

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USSR/Cultivated Plants - Subtropical. Tropical.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44357

winter in lemonarium and in centrally heated rooms with different degrees of lighting. The studies under room conditions were carried out on the pot cultures of cuttings grafted on the tri-foliolate and on the seedlings of the Meyer and Novogruzinski lemon. In the lemonarium the experiments were conducted on the varieties Lisbon, Villafrank, Kuzner, Dommune, Sochinsky Genoa and Ponderosa. The casting off of the leaves by the lemon in winter under room conditions is produced by the plants light starvation and by an abrupt change in the conditions (the transfer from the hothouse into the room). The more light and the higher the moisture content in the air in the building in winter the smaller the loss of the leaves. In maintaining the lemon in hothouses, greenhouses or lemonariums the penetration of smoke into the building has an extremely harmful effect since it produces a mass dropping off of the leaves especially with the high

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USSR/Cultivated Plants - Subtropical. Tropical.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1958, 44357

moisture content of the air in the building. --
A.A. Gruzhenko

Card 3/3

ANDREYEV, A.A.; BRYZGALOV, L.I.; SMAROTINA, E.I., red.

[Standard designs of high-capacity hydrolysis yeast plants]
Tipovye proekty gidrolizno-drozhzhevykh zavodov bol'shoi
moshchnosti. Moskva, 1963. 35 p. (MIRA 17:8)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut
informatsii i tekhniko-ekonomicheskikh issledovaniy po les-
noy, tsellyulozno-bumazhnoy, derevoobrabatyvayushchey pro-
myshlennosti i lesnomu khozyaystvu.

BRYEGALOV, I. I.

Production of furfurole in hydrolysis plants. Gidroliz. i lesokr'm.
prom. 17 no.8:6-8 '64. (MIRA 18:1)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
gidroliznoy promyshlennosti.

Bryzgalov, M.
~~BRYZGALOV, M. "tokar"~~

Greater labor productivity! Sov. profsoiuzy 6 no.1:22-23

Ja '58.

(MIRA 11:1)

(Shipbuilding)

SKRAMTAYEV, Boris Grigor'yevich; ELINZON, Mark Petrovich; BRYZGALOV, N.A.,
redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Lightweight concretes] Legkie betony. Moskva, Gos. izd-vo lit-ry
po stroit. materialam, 1956. 74 p. (MLRA 10:3)
(Lightweight concrete)

BRYZGALOV, N.A.

Efficient method of prospecting for ore deposits* by V.I.
Krasnikov, Reviewed by N.A. Bryzgalov. Geol.rud.mestorozh.
no.5:105-107 S-O '62. (MIRA 15:12)
(Prospecting) (Krasnikov, V.I.)

BOGATSKIY, V.V.; FEDORCHUK, V.P.; OZEROVA, N.A.; BRYZGALOV, N.A.; GLADKOV, V.G.; NAMOLOV, V.A.; SANIN, B.P.

Reviews and bibliography. Geol. rud. mestorozh. 7 no.1:113-123
Ja-F '65.

(MIRA 18:4)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent, i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva (for Fedorchuk, Ozerova).

BRIZGALOV, N.A.; VEL'FSON, F.I.

The second edition of the book "Formation conditions of metalliferous and nonmetalliferous deposits by P.M.Tatarinov. Reviewed by N.A.Brizgalov, and F.I.Vel'fson. Zap.Vses.min.ob-va. 94 no.2:240-247 '65. (MIRA 18:5)

SADYKOV, A.M.; BRYZGALOV, N.A.; VOSKRESENSKAYA, M.N.; SHARTOV, A.K.

Reviews. Sov.geol. 8 no.11:157-169 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (for Voskresenskaya, Shartov).

ZABUSELOV, N. (Novokuznetsk); NAGORNIY, A.; BRYZGALOV, P.; SHABLOV, V.
(Vologda); LARIONOV, dotsent (Moskva); MIROSHNICHENKO, V.
(Sverdlovskaya obl.)

Readers' letters. Pozh. delo 9 no.9:30-31 S '63. (MIRA 16:10)

1. Sotrudnik Rostovoskogo-na-Donu Upravleniya pozharnoy okhrany
(for Nagornyy). 2. Nachal'nik Yelabuzhskoy gorodskoy pozharnoy
chasti, Tatarskaya ASSR (for Bryzgalov).
(Fire prevention)

BRYZGALOV, S. A., Cand Tech Sci -- (diss) "Hydraulic operating conditions of a damless water enclosure." Moscow, 1960. 19 pp; (Ministry of Agriculture USSR, All-Union Scientific Research Inst of Hydraulic Engineering and Land Improvement); 150 copies; price not given; (KL, 31-60, 141)

BRYZGALOV, S.A., inzh.

Effect of the angle of off take on the movement of bottom sediments
and floating bodies into the diversion canal in case of a dam-
less water intake. Gidr.i mel. 12 no.2:39-49 F '60.

(MIRA 13:6)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva im. Vil'yamsa.
(Hydraulics)

BRYZGALOV, S.A., inzh.

Stream level calculations for damless water intakes. Gidr. i
mel. 12 no.9:29-36 S '60. (MIRA 13:9)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva im. V.R.
Vil'yamsa.

(Hydraulic engineering)

ERYZGALOV, S.A., kand.tekhn.nauk

New combination-type water intake. Izv.TSKHA no.4:173-180 '62.
(MIRA 15:12)

(Intakes (Hydraulic engineering))

BRYZGALOV, S.A., kand. tekhn. nauk

Calculating the distribution of streamflow in water intakes.
Izv. TSKhA no.6:208-213 '61. (MIRA 16:8)

(Hydraulics)

BRYZGALOV, S.A., kand. tekhn. nauk

Lateral compression of the flow in a water intake. Izv.
TSKHA no.2:198-203 '63. (MIRA 16:10)

BRYZGALOV, V. A. ed.

A manual for an agronomist-vegetable grower 3. per. izd. Moskva, Gos. izd-vo selkhoz
lit-ry, 1951. 1047 p.

1. Vegetable gardening-Handbooks, manuals, etc.
2. Vegetable gardening-Russia

BRYZGALOV, V. A., ORDYNSKIY, V. V., CHERNETCHENKO, V. A.

Vegetables

What scientists are working on in 1952. Sad i og. no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____1953. Unclassified.

L 19054-65 EWT(d)/T/LWP(1) Pg-4 IJP(c)/RAEM(d)/ESD(dp)

ACCESSION NR: AP5000150

S/0103/64/025/011/1572/1580

AUTHOR: Bryzgalov, V. I. (Moscow); Gel'fand, I. M. (Moscow);
Pvatetskiy-Shapiro, I. I. (Moscow); Tsetlin, M. L. (Moscow)

TITLE: Uniform games of automata and their digital-computer simulation

SOURCE: Avtomatika i telemekhanika, v. 25, no. 11, 1964, 1572-1580

TOPIC TAGS: automaton, automata game 16

ABSTRACT: Examples of the group behavior of automata are considered: a symmetrical game and a circle game. A uniform game presupposes equal rights for all participants (automata). Payoff functions are, in fact, mathematical expectations of gain by each automaton. Automata have no prior information about the system of payoff functions. In the course of a game, the automaton receives information about its gains and losses and uses this information for selecting its strategies. In the circle game, the principal laws of behavior of

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L 19054-65

ACCESSION NR: AP5000150

automata, depending on the system of payoff functions, number of automata, and their storage capacity, are explored. It is found that with a favorable structure of the payoff function, the automata reach the Mohr point, i. e., their behavior becomes expedient; the expediency of behavior of individual automata has a much stronger effect on the expedience of their joint behavior than any variation of the number of automata. Games of linear-tactics automata were simulated on a digital computer; Mohr's and Nash's plays were studied. "The authors wish to thank M. S. Mikhaylova for her assistance." Orig. art. has: 2 figures, 8 formulas, and 5 tables.

ASSOCIATION: none

SUBMITTED: 01Nov63

ENCL: 00

SUB CODE: DP, MA

NO REF SOV: 005

OTHER: 000

Card 2/2

L 2483-66 EWT(d)/T/EWP(1) IJP(c)
ACCESSION NR: AP5011910

UR/0103/65/026/004/0683/0687

AUTHOR: Borovikov, V. A. (Moscow); Bryzgalov, V. I. (Moscow)

31
B

TITLE: The simplest symmetric game of several automata

SOURCE: Avtomatika i telemekhanika, v. 26, no. 4, 1965, 683-687

TOPIC TAGS: simple symmetric game, two action automaton, game theory, computer simulation

ABSTRACT: The paper studies the collective behavior of automata with linear tactics and expedient behavior in stationary random media during simple symmetric games. The terminology and definitions are those introduced by M. L. Tsetlin (Usp. matem. nauk, v. 18, no. 4 (122), 1964). Each of the automata has two actions and the game is determined by the number of participating automata and the pay function depending only on the number of automata which selected the given action. The expediency of finite automata behavior in such a game is studied analytically and by the use of digital computer simulation. "The authors thank M. L. Tsetlin for numerous useful discussions." Orig. art. has: 9 formulas and 4 figures.

ASSOCIATION: None

Card 1/2

L 2483-66
ACCESSION NR: AP5011910

SUBMITTED: 15Jan64

ENCL: 00

SUB CODE: MA, DP

NO REF SOV: 003

OTHER: 000

beh
Card 2/2

L 60454-65 EWT(d) IJP(c)

ACCESSION NR: AP5007556

S/0020/65/160/005/1039/1041

AUTHOR: Bryzgalov, V. I.; Pyatetskiy-Shapiro, I. I.; Shik, M. L.

TITLE: Two-level model of automation interaction

SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1039-1041

TOPIC TAGS: cybernetics, mathematical model, computer simulation, automation, artificial organ, game theory 16

ABSTRACT: This paper is devoted to the study of a system of automata, whose overall behavior is modified by some device so that the conduct of the automata in a game can be prescribed. A symmetric game is modeled on a computer. In the game a system of N automata A_1, \dots, A_N having two possible moves denoted by 0 and 1, interact while some device B modifies the overall strategy. With every move of the game automaton $A_i (1 \leq i \leq N)$ wins with probability $P(e_i, k)$, where e_i is the previous move of the automaton and k is the number of automata having performed move 1 in the previous turn. The number $P(e, k)$, $e = 0, 1$; $0 \leq k \leq N$, determines the strategy of the automata. The task of B is to modify the numbers $P(e, k)$. This paper is restricted to considering the case for which $P(0, k) + P(1, k) = 1$ for all k and $0.2 \leq P(0, k) \leq$

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L 60454-65

ACCESSION NR: AP5007556

0.8, depending upon the behavior of the automata in the game. Device *B* must work out the details of a strategy where the average number of automata making move 1 is equal to a previously selected number θ_0 . The paper describes in detail the working of device *B*. It is pointed out that the basic problem in such a system lies in the large number of moves necessary to establish the desired overall behavior pattern. For example, with $N = 50$, something like 10^5 - 10^6 moves are required. The present work demonstrates a procedure where only 10^3 - 10^4 moves are required due to the effect of device *B*. It is shown that although 10^5 - 10^6 moves are necessary to reliably establish stable system characteristics, it is even possible to change the strategy in 10-100 moves. With 50 automata it is possible to find a set of optimum parameters for *B* such that the overall system behavior will be satisfactory in 70% of the cases. The problem investigated is then related to the physical problem of control of artificial limbs (to find and maintain a desired limb configuration). "We express thanks to I. M. Gelfand and M. L. Tsetlin, whose ideas on control accomplished by modifying the interactions between the system's controlled elements served as a starting point for this investigation."

ASSOCIATION: none

Card 2/3

L 60454-65

ACCESSION NR: AP5007556

SUBMITTED: 18Aug64

ENCL: 00

SUB CODE: DP, MA

NO REF SOV: 009

OTHER: 001

tip
Card 3/3

BRYEGALOV, V.I.; MOROZOV, A.I.

Steady-state current flow in an axially symmetrical conducting body under conditions of a strong Hall effect. Zhur.eksp. i teor.fiz. 49 no.6s1789-1795 D '65.

(FIRA 19:1)

1. Matematicheskii institut im. V.A.Steklova AN SSSR.
Submitted April 21, 1965.

BRYZGALOV, Ye. [Bryzhalov, IE.], kand.biolog.nauk, nauchnyy sotrudnik

Rose beauties. Nauka i zhyttia 12 no.4:47 Ap '62. (MIRA 15:8)

1. TSentral'nyy respublikanskiy botanicheskiy sad AN UkrSSR.
(Ukraine--Roses)

BRYZGALOV, Ye. A.: Master Biol Sci (diss) -- "Winter loss of leaves in the lemon as a function of growth conditions". Kiev, 1958. 17 pp (Acad Sci Ukr SSR, Dept of Biol Sciences), 200 copies (KL, No 1, 1959, 117)

BRYZGALOV, Ye.A.

Growth, development and fruiting of lemons in trench cultures.
(MIRA 12:2)

Trudy Bot.sada AN URSR 5:97-109 '58.
(Ukraine--Lemon)

KOCHERZHENKO, I.Ye., kand.biologicheskikh nauk; BRYZGALOV, Ye.A.,
- mladshiy nauchnyy sotrudnik

Premature shedding of leaves in lemons during the winter
indoors and in hothouses. Biul. VNIICHISK no.1:144-157 :57.
(MIRA 15:5)

1. Botanicheskiy sad Akademii nauk Ukrainsskoy SSR, Kiyev.
(Lemon)
(Abscission (Botany))

BRYZGALOV, Ye.O. [Bryzhalov, YE.O]

Supplementary winter lighting for lemons in trench cultures and
its effect on the abscission of leaves. Visnyk Bot.sada AN URSS
no.1:82-89 '59. (MIRA 13:8)

(Lemon)

(Defoliation)

(Plants, Effect of light on)

BRYZGALOV, Yu.P.

Regulator for the feeding of water into the cooling system of
a compressor. TSement 28 no.3:21 My-Je '62. (MIRA 15:7)
(Compressors)
(Automatic control)

BISPEN, I. I., kand. med. nauk; SATRAPINSKIY, E. V., ~~BYEGALOVA, I. I.~~

Medical service of troops in combat on the Volga. Vol. 1. med. zaur.
no. 2:84-87 163. (MIRA 17:9)